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Listing and Amendments to the Claims

Please amend claim 1 as indicated.

1. (Currently Amended) Method for detecting a wobble signal, comprising the steps of:

generating a reference signal (RS) corresponding in phase and frequency to the desired wobble signal;

comparing an input signal (IS) comprising the wobble signal (WS) with a the reference signal (RS), ~~the reference signal (RS) corresponding in phase and frequency to the desired wobble signal;~~ and

outputting an output signal (OS) indicating the amplitude and the phase of the wobble signal,

wherein the comparing step comprises the steps of:

generating a sum signal (S1) and a difference signal (S2) of the input signal (IS) and the reference signal (RS); and

comparing the amplitudes of the sum signal (S1) and the difference signal (S2) to obtain the relative phase between the wobble signal (WS) and the reference signal (RS).

2. (Cancelled)

3. (Previously Presented) Method according to claim 1, wherein the comparing step further comprises the step of further processing said sum signal (S1) and said difference signal (S2).

4. (Previously Presented) Method according to claim 3, wherein the further processing comprises one of absolute value calculation and phase sensitive rectification.

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5. (Previously Presented) Method according to claim 3, wherein the comparing step further comprises the step of generating a further difference signal (DS) of said processed sum signal (S1) and said processed difference signal (S2).
6. (Previously Presented) Method according to claim 3, wherein the comparing step further comprises the step of integrating said further processed sum signal (A1) and said further processed difference signal (A2) over a wobble period.
7. (Previously Presented) Method according to claim 5, wherein the comparing step further comprises the step of integrating said further difference signal (DS) over a wobble period.
8. (Previously Presented) Method according to claim 1, wherein the reference signal (RS) is calculated.
9. (Previously Presented) Method according to claim 1, wherein the reference signal (RS) is stored in a table.
10. (Cancelled)
11. (Previously Presented) Apparatus for reading from and/or writing to recording media, characterized in that it comprises means for performing a method according to any of claims 1 and 3-9.